

TECHNIQUES FOR TRANSMISSION OF MESSAGE FRAGMENTS BETWEEN OBJECT REQUEST BROKERS

ABSTRACT OF THE DISCLOSURE

5 Techniques for transmission of message fragments between Object Request Brokers operating in distributed object oriented environments. The techniques provide an elegant mechanism for fragmentation of messages into sub-messages. In one embodiment, a fragment-offset is provided as a means for determining the location of data bytes in sub-messages with respect to the original message that has been fragmented. During the

10 construction and transmission of sub-messages, the fragment-offset can be updated to indicate the current offset with respect to the original message. Accordingly, in contrast to conventional techniques, a significant amount of computations or bookkeeping to track of several other variables (e.g., number of fragments constructed, total number of bytes constructed, etc.) are not required. As will be appreciated, the headers of the sub-messages need

15 not be of the same size. Similarly, the data portions of the sub-messages can vary in size. As a result, the techniques provide an elegant means to determine the location of bytes in sub-messages with respect to the original message that has been fragmented, without requiring the size of the data fragments and header fragments to be constant.